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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/646,242 08/22/200		Sandip Sarkar	030244	9397		
23696	7590 08/10/20	i	EXAMINER			
QUALCOM 5775 MORE	IM INCORPORAT	BOAKYE, AL	BOAKYE, ALEXANDER O			
	, CA 92121		ART UNIT	PAPER NUMBER		
	•		2616			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.		Applicant(s)			
		10/646,242		SARKAR, SANDIF	•			
Office Action Summary			Examiner		Art Unit			
			ALEXANDER BOAK		2616			
Period fo	The MAILING DATE of this commun or Reply	nication appe	ars on the cover sh	eet with the co	orrespondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) file	ed on <i>04 Apr</i>	ril 2006.					
· -	,							
3)□	Since this application is in condition	for allowand	e except for forma	I matters, pro	secution as to the	merits is		
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-8,10-32,34-46,48 and 50) is/are pendi	ing in the application	on.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) 12-14,22-32,34-38,46,48 a							
	6)⊠ Claim(s) <u>1,2,5-8,10,11,15-21,39-45</u> is/are rejected.							
7)🖂	Claim(s) 3 and 4 is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or	election requireme	nt.				
Applicati	on Papers							
9)□	The specification is objected to by th	e Examiner.						
	The drawing(s) filed on is/are			ed to by the E	xaminer.			
	Applicant may not request that any obje			-				
	Replacement drawing sheet(s) including			•	* *	FR 1.121(d).		
11)	The oath or declaration is objected to	_	•			• •		
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Inform	e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		5) 🔲 Not		te atent Application (PTC)-152)		

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Jamal (US Patent # 5,754,537).

Regarding claim 10, Jamal teaches a remote station, comprising: a data buffer for receiving data for transmission (column 10, lines 7-8); a message generator for generating an access request message when the data buffer contains data for transmission (column 11, lines 51-53); a receiver for receiving one or more common grant channels from a base station and for receiving a busy signal from the base station (see Fig. 6); a message decoder for decoding an access grant directed to the remote station, the access grant comprising a common grant on one of the one or more common grant channels(column 14,lines 33-36; the claimed common grant channels are shared channels which are inherent in the access grant); and a transmitter for transmitting the access request message and for transmitting a portion of data from the data buffer in response to a decoded access grant in accordance with the received busy signal, wherein the receiver further receives one or more individual grant channels from

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the base station (column 11, lines 32-34; column 11, lines 57-63); and the message decoder further decodes an access grant comprising an individual grant directed on one of the one or more individual grant channels (column 14, lines 33-36).

Regarding claim 11, Jamal teaches a remote station, comprising: a data buffer for receiving data for transmission (column 10, lines 7-8); a message generator for generating an access request message when the data buffer contains data for transmission (column 11, lines 51-53); a receiver for receiving one or more common grant channels from a base station and for receiving a busy signal from the base station (see Fig. 6); a message decoder for decoding an access grant directed to the remote station, the access grant comprising a common grant on one of the one or more common grant channels(column 14,lines 33-36; the claimed common grant channels are shared channels which are inherent in the access grant); and a transmitter for transmitting the access request message and for transmitting a portion of data from the data buffer in response to a decoded access grant in accordance with the received busy signal, wherein the transmitter further transmits a limited portion of data in the data buffer autonomously, irrespective of whether an access grant has been received, respective to the received busy signal(column 11, lines 32-34; column 11, lines 57-63).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jamal (US Patent # 5,754,537) in view of Scholefield et al. (US Patent # 5,752,193).

Regarding claims 1, 2, 5, 6 7, 8, Jamal teaches an apparatus, operable with a plurality of remote stations (column 10, lines 7-8) capable of transmission on a shared resource, comprising: a receiver for receiving a plurality of access requests for transmission on the shared resource from a respective plurality of remote stations and for measuring the utilization of the shared resource (column 8, lines 34-39); the allocation comprising zero or one common access grant to a subset of the requesting remote stations and for generating a busy command in response to the measured utilization (column 14, lines 33-36; the claimed common grant channels are shared channels which are inherent in the access grant); a transmitter for transmitting the access request message and for transmitting a transmitter for transmitting the common access grant to the remaining remote stations on one or more common grant channels and for transmitting a busy signal comprising one or more busy commands (column 11, lines 32-34; column 11, lines 57-63). Jamal differs from the claimed invention in that Jamal does not explicitly disclose a scheduler for allocating a portion of shared resource. However, Scholefield discloses a scheduler for allocating a portion of shared resource (block 117 of Fig. 1 is a scheduler for allocating a shared resource). One of

ordinary skill in the art would have been motivated to incorporate a scheduler into the communication network in order to be able to allocate resource. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a scheduler such as the one taught by Scholefield into the communication network of Jamal with motivation being that it provide capability to improve system performance.

3. Claims 15-21, 39 and 40-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jamal et al. (US Patent # 5754,537) in view of Chen et al. (US Patent # 5,923,650).

Regarding claims 15, 16, 17, Jamal teaches a remote station, comprising: a data buffer for receiving data for transmission (column 10, lines 7-8); a message generator for generating an access request message when the data buffer contains data for transmission (column 11, lines 51-53); a receiver for receiving one or more common grant channels from a base station and for receiving a busy signal from the base station (see Fig. 6); a message decoder for decoding an access grant directed to the remote station, the access grant comprising a common grant on one of the one or more common grant channels(column 14,lines 33-36; the claimed common grant channels are shared channels which are inherent in the access grant); and a transmitter for transmitting the access request message and for transmitting a portion of data from the data buffer in response to a decoded access grant in accordance with the received busy signal, wherein the transmitter further transmits a limited portion of data in the data

buffer autonomously, irrespective of whether an access grant has been received, respective to the received busy signal (column 11, lines 32-34; column 11, lines 57-63).

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Jamal differs from the claimed invention in that Jamal does not teach that the transmission rate is decreased in response to an assertion on the received busy signal. However, Chen from the same field of endeavor discloses that the transmission rate is decreased in response to an assertion on the received busy signal (column 17, lines 14-15). One of ordinary skill in the art would have been motivated to incorporate transmission rate decrease into the communication network in order to be able to reduce data overflow. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate transmission rate decrease such as the one taught by Chen into the communication network of Jamal with motivation being that it provides capability for the system to prevent congestion.

Regarding claims 18, 19, 20, 21, Jamal teaches a remote station, comprising: a data buffer for receiving data for transmission (column 10, lines 7-8); a message generator for generating an access request message when the data buffer contains data for transmission (column 11, lines 51-53); a receiver for receiving one or more common grant channels from a base station and for receiving a busy signal from the base station (see Fig. 6); a message decoder for decoding an access grant directed to the remote station, the access grant comprising a common grant on one of the one or more common grant channels (column 14, lines 33-36; the claimed common grant channels which are inherent in the access grant); and a transmitter for transmitting the access request message and for transmitting a portion of data from

the data buffer in response to a decoded access grant in accordance with the received busy signal, wherein the transmitter further transmits a limited portion of data in the data buffer autonomously, irrespective of whether an access grant has been received, respective to the received busy signal (column 11, lines 32-34; column 11, lines 57-63).

Jamal differs from the claimed invention in that Jamal does not teach that the transmission rate is increased in response to an assertion on the received busy signal. However, Chen from the same field of endeavor discloses that the transmission rate is increased in response to an assertion on the received busy signal (column 17, lines 23-27). One of ordinary skill in the art would have been motivated to incorporate transmission rate increase into the communication network in order to be able to reduce underflow. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate transmission rate increase such as the one taught by Chen into the communication network of Jamal with motivation being that it provides capability to improve system performance.

Regarding claims 39, 40, 41, and 45 Jamal teaches a method form transmission, comprising: receiving data for transmission (column 10, lines 31-34); storing the data in a data buffer (column 10, lines 30-32); generating an access request message (column 11, lines 51-53); transmitting the access request message (column 11, lines 32-34); receiving one or more common grant channels from a base station (see Fig. 6); decoding an access grant comprising a common grant on one of the one or more common grant channels; receiving a busy signal from the base station (column 14, lines 33-36; the claimed common grant channels are shared channels which are inherent in

the access grant); and transmitting a portion of data from the data buffer in response to a decoded access grant adapted in accordance with received busy signal (column 11, lines 32-34; column 11, lines 57-63).

Jamal differs from the claimed invention in that Jamal does not teach that the transmission rate is decreased in response to an assertion on the received busy signal. However, Chen from the same field of endeavor discloses that the transmission rate is decreased in response to an assertion on the received busy signal (column 17, lines 14-15). One of ordinary skill in the art would have been motivated to incorporate transmission rate decrease into the communication network in order to be able to reduce data overflow. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate transmission rate decrease such as the one taught by Chen into the communication network of Jamal with motivation being that it provides capability for the system to prevent congestion.

Regarding claims 42, 43 and 44 Jamal teaches a method form transmission, comprising: receiving data for transmission (column 10, lines 31-34); storing the data in a data buffer (column 10, lines 30-32); generating an access request message (column 11, lines 51-53); transmitting the access request message (column 11, lines 32-34); receiving one or more common grant channels from a base station (see Fig. 6); decoding an access grant comprising a common grant on one of the one or more common grant channels; receiving a busy signal from the base station (column 14, lines 33-36; the claimed common grant channels are shared channels which are inherent in the access grant); and transmitting a portion of data from the data buffer in response to

a decoded access grant adapted in accordance with received busy signal (column 11, lines 32-34; column 11, lines 57-63).

Jamal differs from the claimed invention in that Jamal does not teach that the transmission rate is increased in response to an assertion on the received busy signal. However, Chen from the same field of endeavor discloses that the transmission rate is increased in response to an assertion on the received busy signal (column 17, lines 23-27). One of ordinary skill in the art would have been motivated to incorporate transmission rate increase into the communication network in order to be able to reduce underflow. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate transmission rate increase such as the one taught by Chen into the communication network of Jamal with motivation being that it provides capability to improve system performance.

Allowable Subject Matter

4. Claims 3-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 12, 13, 14, 22-32, 34, 35, 36, 37, 38, 46, 48, 50 are allowable.

The following is a statement of reasons for the indication of allowable subject matter: As to claims 12, the prior art of record does not teach the receiver further

receives an ACK-and-continue command; the transmitter transmits an additional portion of data from the data buffer in response to a previously decoded access grant, responsive to the received busy signal. As to claim 13, the prior art of record does not teach wherein the transmitter further transmits a limited portion of the data in the data buffer autonomously, subsequent to a received ACK, responsive to the received busy signal. As to claim 14, the prior art of record does not teach the receiver further receives a NAK, command; and the transmitter retransmits the portion of data from the data buffer previously transmitted in response to a previously decoded access grant, responsive to the received busy signal. As to claims 22-32, the prior art of record does not teach transmitting a busy signal when the measured utilization exceeds a predetermined threshold. As to claim 35, the prior art of record does not teach transmitting a limited portion of the data in the data buffer autonomously, irrespective of whether an access grant has been received, responsive to the received busy signal. As to claim 36, the prior art of record does not teach receiving an ACK-and-continue command; and transmitting an additional portion of data from the data buffer in response to a previously decoded access grant, adapted to the received busy signal. As to claim 37, the prior art of record does not teach transmitting a limited portion of the data in the data buffer autonomously, subsequent to a received ACK, responsive to the received busy signal. As to claim 38, the prior art of record does not teach receiving a NAK command; and retransmitting the portion of data from the data buffer previously transmitted in response to a previously decoded access grant, responsive to the received busy signal. As to

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claims 46, 48 and 50, the prior art of record does not teach means for transmitting a

busy signal when the measured utilization exceeds a pre-determined threshold.

Response to Arguments

5. Applicant's arguments with respect to claims 1-8,10-32, 34-46, 48 and 50 have

been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander Boakye whose telephone number is (571)

272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiners'

supervisor, Chi Pham, can be reached on (571) 272-3179. The Central Fax number is

(571) 273-8300. Any inquiry of general nature or relating to the status of this application

or proceeding should be directed to Electronic Business Center numbers 866-217-9197

and 703-305-3028.

Alexander Boakye

Patent Examiner

AB

8/5/06